

AMENDMENTS TO THE CLAIMS

1-2. (Cancelled)

3. (Currently Amended) A network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through ~~a one~~ transmission line, wherein:

~~said network control system includes as said~~ each of said at least two devices includes either or both of

~~a device having~~ at least one target operable to receive a message and perform processing according to the message, and

at least one controller operable to transmit the message and establish a connection for data transmission with said target; ~~and~~

~~a device having one of said target and said controller;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

said plurality of ~~protocols~~ data transmission modes comprise

a first ~~protocol~~ data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission on an established connection;

said controller is operable to establish, before data transmission, a connection of said second ~~protocol~~ data transmission mode to said target;

when said controller receives data of the message from said target, said controller is operable to make a data request by using said first ~~protocol~~ data transmission mode;

said target is operable to transmit the data onto the established connection by using said second ~~protocol~~ data transmission mode according to the data request; and

said controller is operable to receive the data by using said second ~~protocol~~ data transmission mode.

4. (Cancelled)

5. (Currently Amended) A network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through ~~a one~~ transmission line, wherein:

~~said network control system includes as said each of said~~ at least two devices includes either or both of

~~a device having~~ at least one target operable to receive a message and perform processing according to the message, and

at least one controller operable to transmit the message and establish a connection for data transmission with said target; ~~and~~

~~a device having one of said target and said controller;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

said plurality of ~~protocols~~ data transmission modes comprise

a first ~~protocol~~ data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission on an established connection;

said controller is operable to establish, before data transmission, a connection of said second ~~protocol~~ data transmission mode to said target;

said target is operable to spontaneously transmit data to said controller through the established connection by using said second ~~protocol~~ data transmission mode; and

said controller is operable to receive the data by using said second ~~protocol~~ data transmission mode.

6. (Currently Amended) A network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which

at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as said each of said~~ at least two devices comprises at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the message, and which includes at least one internal function control means for performing data transmission and a connection management means for connecting an output of said internal function control means,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission

between said target and said consumer; and

~~a device having at least one of said controller, said target, said consumer, and said initiator;~~

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said plurality of protocols comprise

a first ~~protocol~~ data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission onto an established connection; and

when said internal function control means performs the data transmission, said connection management means in said target connects the output of said internal function control means to a connection of said second ~~protocol~~ data transmission mode according to a request of said internal function control means.

7. (Currently Amended) A network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through ~~a one~~ transmission line, wherein:

~~said network control system includes as said each of said~~ at least two devices comprises at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the message, and which includes at least one internal function control means,

a consumer operable to receive data from ~~the said~~ target, and

an initiator operable to establish a connection for data transmission between said target and said consumer; ~~and~~

~~a device having at least one of said controller, said target, said consumer, and said initiator;~~

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said ~~plural protocols~~ plurality of data transmission modes comprise

a first ~~protocol~~ data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission on an established connection; and

said target is operable to transmit data including an identifier which specifies the output source of the data, on the connection, according to said second ~~protocol~~ data transmission mode.

8. (Currently Amended) A network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which

at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as said~~ each of said at least two devices comprises at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

a target operable to perform processing according to the message,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission

between said target and said consumer; and

~~a device having at least one of said controller, said target, said consumer,~~

~~and said initiator;~~

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said plurality of ~~protocols~~ data transmission modes comprise

a first ~~protocol~~ data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission an established connection;

said controller is operable to transmit an identifier indicating the destination in said consumer, to said target, by using said first ~~protocol~~ data transmission mode; and

said target is operable to transmit the data including the identifier which indicates the destination and is received by said first ~~protocol~~ data transmission mode, on the established connection, by using said second ~~protocol~~ data transmission mode.

9. (Currently Amended) A network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and

information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices
comprises at least one of;

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the
message, and which includes at least one internal function control means,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission
between said target and said consumer; ~~and~~

~~a device having at least one of said controller, said target, said consumer,
and said initiator;~~

said network control system comprises said controller, said target, said consumer,
and said initiator;

said controller, said target, said consumer and said initiator are each connected to
one transmission line;

said plurality of ~~protocols~~ data transmission modes comprise

a first ~~protocol~~ data transmission mode which comprises a message
transmission for transmitting the message and a message response which is a
response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission on an
established connection;

said controller is operable to transmit the message by using said first ~~protocol~~ data
transmission mode to a plug through which data is input and output to/from a desired
internal function control means of said target; and

said target is operable to execute the process specified by the message which is
directed to the plug.

10. (Currently Amended) A network control system as described in any one of Claims
3, ~~and~~ 5 to 9 and 34 to 36, wherein the message includes a message for confirming the
data transmission by said second ~~protocol~~ data transmission mode.

11. (Currently Amended) A network control system as described in any one of claims 3, ~~and~~ 5 to 9 and 34 to 36, wherein the data transmitted by said second ~~protocol-data~~ transmission mode includes version information, and a version of the data is managed by using the version information.

12. (Currently Amended) A network control system as described in any one of Claims 3, ~~and~~ 5 to 9 and 34 to 36, wherein the data transmitted by said second ~~protocol-data~~ transmission mode is information about a graphical user interface which forces said controller to make a notification to a user.

13. (Currently Amended) A network control system as described in any one of Claims 3, ~~and~~ 5 to 9 and 34 to 36, wherein the data transmitted by said second ~~protocol-data~~ transmission mode includes attribute information of the data.

14. (Previously Presented) A network control system as described in Claim 13, wherein the attribute information includes an identifier, size information, and a data section.

15. (Currently Amended) A network control system as described in any one of Claims 3, ~~and~~ 5 to 9 and 34 to 36, wherein the data transmitted by said second ~~protocol-data~~ transmission mode is based on an object as a unit.

16. (Currently Amended) A network control system as described in Claim 15, wherein the object has the same structure as attribute information of the data transmitted by said second ~~protocol-data~~ transmission mode.

17. (Currently Amended) A network control system as described in Claim 15, wherein the object has an identifier, size information, and a data section.

18. (Previously Presented) A network control system as described in Claim 15, wherein the object has attribute information in the data section.

19. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a ~~one~~one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes either or both of

~~a device having~~

at least one controller operable to transmit a message, and

at least one target operable to receive the message and perform processing

according to the message; ~~and~~

~~a device having at least one of said controller and said target;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

a connection for data transmission between said controller and said target is established by said controller;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on an established connection; and

said controller is operable to support said plurality of ~~protocols~~data transmission modes, to transmit the message by using said first ~~protocol~~data transmission mode, and to receive the data from the connection by using said second ~~protocol~~data transmission mode.

20. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes either or both of

~~a device having~~ at least one controller operable to transmit a message, and at least one target operable to receive the message and perform processing according to the message;

~~a device having at least one of said controller and said target;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

a connection for data transmission between said controller and said target is established by said controller;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on an established connection; and

said controller is operable to support said plurality of ~~protocols~~data transmission modes, to make a data request by using said first ~~protocol~~data transmission mode, and to receive the data transmitted according to the data request, from the connection, by using said second ~~protocol~~data transmission mode.

21. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes either or both of

~~a device having~~ at least one controller operable to transmit a message, and at least one target operable to receive the message and perform processing according to the message;

~~a device having at least one of said controller and said target;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

a connection for data transmission between said controller and said target is established by said controller;

said plurality of ~~protocols~~ data transmission modes comprise

a first ~~protocol~~ data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~ data transmission mode for data transmission on the established connection; and

said controller is operable to support said plurality of ~~protocols~~ data transmission modes, to establish the connection to said target in advance, to make a data request by using said first ~~protocol~~ data transmission mode when receiving data, and to receive the data transmitted according to the data request, from the connection, by using said second ~~protocol~~ data transmission mode.

22. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~ data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through ~~a one~~ transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes either or both of

~~a device having~~ at least one controller operable to transmit a message, and

at least one target operable to receive the message and perform processing according to the message; and
~~a device having at least one of said controller and said target;~~
said network control system comprises said controller and said target;
said controller and said target are each connected to one transmission line;
a connection for data transmission between said controller and the target is established by said controller;
said plurality of ~~protocols~~data transmission modes comprise
a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and
a second ~~protocol~~data transmission mode for data transmission on the established connection; and
said controller is operable to support said plurality of ~~protocols~~data transmission modes, and to receive the data which is transmitted on the connection spontaneously by said target according to said second ~~protocol~~data transmission mode.

23. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes either or both of

~~a device having at least one controller operable to transmit a message, and~~
at least one target operable to receive the message and perform processing according to the message;

~~a device having at least one of said controller and said target;~~
said network control system comprises said controller and said target;
said controller and said target are each connected to one transmission line;

a connection for data transmission between said controller and said target is established by said controller;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

said controller is operable to support said plurality of ~~protocols~~data transmission modes, to establish the connection of said second ~~protocol~~data transmission mode to said target in advance of data transmission, and to receive the data which is transmitted onto the connection spontaneously by said target according to said second ~~protocol~~data transmission mode.

24. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

a target operable to perform processing according to the message,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission

between said target and said consumer; and

~~a device having at least one of said controller, said target, said consumer and said initiator;~~

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection;

said network control system comprises said target, said controller, said consumer and said initiator;

said target is operable to transmit data including an identifier indicating the destination and received by said first ~~protocol~~data transmission mode, onto the connection, according to said second ~~protocol~~data transmission mode; and

said target, said controller, said consumer and said initiator are each connected to one transmission line; and

said controller is operable to transmit the identifier indicating the destination in said consumer, to said target, by using said first ~~protocol~~data transmission mode.

25. (Currently Amended) A controller used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the message, and which includes at least one internal function control means,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission between said target and said consumer; and

~~a device having at least one of said controller, said target, said consumer and said initiator;~~

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection;

said network control system comprises said target, said controller, said consumer and said initiator;

said target is operable to execute a process specified by the message which is directed to a plug through which data is input and output to/from a desired internal function control means of said target; and

said target, said controller, said consumer and said initiator are each connected to one transmission line; and

said controller is operable to transmit the message to the plug by using said first ~~protocol~~data transmission mode.

26. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes at least one of

~~a device having~~

at least one controller operable to transmit a message, and

at least one target operable to receive the message and perform processing according to the message;

~~a device having at least one of said controller and said target;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

a connection for data transmission between said controller and said target is established by said controller;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

said target is operable to support said plurality of ~~protocols~~data transmission modes, and to transmit the data onto the connection by using said second ~~protocol~~data transmission mode according to the message received by said first ~~protocol~~data transmission mode.

27. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes either or both of

~~a device having~~

at least one controller operable to transmit a message, and

at least one target operable to receive the message and to perform processing according to the message; and

~~a device having at least one of said controller and said target;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

a connection for data transmission between ~~the said~~ controller and ~~the said~~ target is established by said controller;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

said target is operable to support said plurality of ~~protocols~~data transmission modes, and to transmit the data onto the connection by using said second ~~protocol~~data transmission mode, according to a data request from said controller by using said first ~~protocol~~data transmission mode.

28. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein;

~~said network control system includes as said at least two devices~~ includes either or both of

~~a device having~~

at least one controller operable to transmit a message, and

at least one target operable to receive the message and perform processing according to the message;

~~a device having at least one of said controller and said target;~~

said network control system comprises said controller and said target;

said controller and said target are each connected to one transmission line;

a connection for data transmission between said controller and said target is established by said controller;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

said target has said plurality of ~~protocols~~data transmission modes, and is operable to spontaneously transmit the data onto the connection by using said second ~~protocol~~data transmission mode.

29. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the message, and which includes at least one internal function control means for performing data transmission and connection management means for connecting an output of said internal function control means,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission between said target and said consumer;

~~a device having at least one of said controller, said target, said consumer, and said initiator;~~

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

in said target, when said internal function control means performs the data transmission, said connection management means in said target connects the output of said internal function control means to a connection of said second ~~protocol~~data transmission mode, according to a request from said internal function control means.

30. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as~~ each of said at least two devices includes at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the message, and which includes at least one internal function control means,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission between said target and said consumer;

~~a device having at least one of said controller, said target, said consumer, and said initiator;~~

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

said target is operable to transmit data including an identifier which specifies an output source of the data, onto the connection, by using said second ~~protocol~~data transmission mode.

31. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes a~~each of said at least two devices includes at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

a target operable to perform processing according to the message,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission

between said target and said consumer; ~~and~~

~~a device having at least one of said controller, said target, said consumer and said initiator;~~

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection;

said network control system comprises said controller, said target, said consumer and said initiator;

said controller is operable to transmit, to said target, an identifier indicating a destination in said consumer by using said first ~~protocol~~data transmission mode; and

said controller, said target, said consumer and said initiator are each connected to one transmission line; and

said target is operable to transmit the data which includes the identifier indicating the destination and which is received by said first ~~protocol~~data transmission mode, onto the connection, by using said second ~~protocol~~data transmission mode.

32. (Currently Amended) A target used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as each of~~ said at least two devices includes at least one of

~~a device having~~

at least one controller operable to receive and transmit a message,

at least one target operable to perform processing according to the message, and which includes at least one internal function control means,

a consumer operable to receive data from said target, and

an initiator operable to establish a connection for data transmission between said target and said consumer; and

~~a device having at least one of said controller, said target, said consumer and said initiator;~~

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection;

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said controller is operable to transmit the message by using said first ~~protocol~~data transmission mode to a plug through which data is input and output to/from a desired internal function control means of said target; and

said target is operable to execute the process specified by the message which is directed to the plug.

33. (Currently Amended) A consumer used in a network control system for transmitting data between devices by using a plurality of ~~protocols~~data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a one transmission line, wherein:

~~said network control system includes as~~ each of said at least two devices includes at least one of

~~a device having~~

said consumer,

at least one controller operable to receive and transmit a message,

a target operable to perform processing according to the message, and

an initiator operable to establish a connection for data transmission

between said target and said consumer;

~~a device having at least one of said controller, said target, said consumer, and said initiator;~~

said network control system comprises said controller, said target, said consumer and said initiator;

said controller, said target, said consumer and said initiator are each connected to one transmission line;

said plurality of ~~protocols~~data transmission modes comprise

a first ~~protocol~~data transmission mode which comprises a message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second ~~protocol~~data transmission mode for data transmission on the established connection; and

said consumer is operable to receive data including an identifier indicating the destination in the consumer, which data is transmitted by said target on the connection by using the second ~~protocol~~data transmission mode and which is received from said controller by using said first ~~protocol~~data transmission mode.

34. (New) A network control system for transmitting data between devices by using a plurality of data transmission modes in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through one transmission line, wherein:

each of the devices includes either or both of

at least one controller operable to transmit a message, and

at least one target operable to receive the message and perform processing according to the message;

said network control system comprises said controller, said target, and an initiator for establishing a connection for data transmission between said controller and said target;

said controller, said target and said initiator are each connected to one transmission line;

said plurality of data transmission modes comprise

a first data transmission mode which comprises message transmission for transmitting the message and message response which is a response to the message transmission, and

a second data transmission mode for data transmission onto the connection established by said initiator; and

said target is operable to transmit data onto the connection by using said second data transmission mode according to the message received by said first data transmission mode.

35. (New) A network control system for transmitting data between devices by using plural protocols, in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data, are connected through one transmission line, wherein:

each of the at least two devices includes either or both of

at least one target operable to receive a message and perform processing according to the message, and

at least one controller operable to transmit the message and establish a connection for data transmission with said target;

said network control system comprises said controller, said target and an initiator for establishing a connection for data transmission between said controller and said target;

said controller, said target and said initiator are connected to one transmission line;

said plurality of data transmission modes comprise

a first data transmission mode which comprises message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second protocol for data transmission onto the connection;

said initiator is operable to establish, before data transmission, a connection of said second protocol between said controller and said target;

when said controller receives the data from said target, said controller is operable to make a data request by using said first data transmission mode;

said target is operable to transmit the data onto the connection by using said second data transmission mode; and

said controller is operable to receive the data by using said second data transmission mode.

36. (New) A network control system for transmitting data between devices by using plural protocols, in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data, are connected through one transmission line, wherein:

each of the devices includes either or both of

at least one controller operable to transmit a message, and

at least one target which operable to receive the message and perform processing according to the message;

said network control system comprises said controller, said target, and an initiator for establishing a connection for data transmission between said controller and said target;

said controller, said target and said initiator are each connected to one transmission line;

said plurality of data transmission modes comprise

a first data transmission mode which comprises message transmission for transmitting the message and a message response which is a response to the message transmission, and

a second data transmission mode for data transmission onto the connection;

said initiator is operable to establish, before data transmission, a connection by using said second data transmission mode between said controller and said target;

said target is operable to spontaneously transmit data to said controller through the connection by using said second data transmission mode; and

said controller is operable to receive the data by using said second data transmission mode.